



Arch Chemicals, Inc.

FOR ANY EMERGENCY, CALL 24 HOURS/7 DAYS: 1-800-654-6911

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: 1-800-424-9300

FOR ALL MSDS QUESTIONS & REQUESTS, CALL MSDS CONTROL: 1-800-511-MSDS

PRODUCT NAME: HTH® SPA WATER MOISTURIZER

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 12-06-2002 SUPERCEDES: 12-19-2001

MSDS NO: 01925-0001 - 81202

MANUFACTURER: Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204

SYNONYMS: None

CHEMICAL FAMILY: Quaternary ammonium chloride mixture

FORMULA: Not Applicable/Mixture

USE DESCRIPTION: Conditioner for spa water

OSHA HAZARD CLASSIFICATION: Eye irritant, possible skin sensitizer

SECTION 2 COMPONENT DATA

PRODUCT COMPOSITION

CAS or CHEMICAL NAME: 1-Hexadecanammonium, N, N, N-trimethyl chloride

CAS NUMBER: 112-02-7
PERCENTAGE RANGE: 8-13%

HAZARDOUS PER 29 CFR 1910.1200: Yes EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Water

CAS NUMBER: 7732-18-5
PERCENTAGE RANGE: 68-84%

HAZARDOUS PER 29 CFR 1910.1200: No EXPOSURE STANDARDS: None Established

SECTION 3 PRECAUTIONS FOR SAFE HANDLING AND STORAGE

DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER. AVOID BREATHING MIST OR VAPOR.

STORAGE CONDITIONS:

STORE IN A COOL, DRY, WELL VENTILATED PLACE.

PRODUCT STABILITY AND COMPATIBILITY

SHELF LIFE LIMITATIONS: No Data

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: Strong oxidizers

SECTION 4 PHYSICAL DATA

APPEARANCE: Transparent pink viscous fluid

FREEZING POINT: No Data

01925-0001- 81202

HTH® SPA WATER MOISTURIZER

BOILING POINT: Approximately 100 Deg.C (212 Deg.F)

DECOMPOSITION TEMPERATURE: No Data SPECIFIC GRAVITY: Approximately 1.0 BULK DENSITY: Approximately 1.0 (q/cc)

pH @ 25 DEG.C: 7-8

VAPOR PRESSURE @ 25 DEG.C: Trace SOLUBILITY IN WATER: Complete VOLATILES, PERCENT BY VOLUME: 7-8%

EVAPORATION RATE: No Data

VAPOR DENSITY: > 1

MOLECULAR WEIGHT: Not Applicable/Mixture

ODOR: Characteristic fragrance

COEFFICIENT OF OIL/WATER DISTRIBUTION: No Data

SECTION 5 PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

PERSONAL PROTECTION FOR ROUTINE USE OF PRODUCT:

RESPIRATORY PROTECTION:

Respirator protection not normally needed. If vapors, mists, or aerosols are generated, wear a NIOSH/MSHA approved respirator.

VENTILATION:

Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.

SKIN AND EYE PROTECTIVE EQUIPMENT:

Use chemical goggles and impermeable gloves.

EQUIPMENT SPECIFICATIONS (WHEN APPLICABLE):

RESPIRATOR TYPE: Not normally required

PROTECTIVE CLOTHING TYPE (This includes: gloves, boots, apron, protective suit): Impervious

SECTION 6 FIRE AND EXPLOSION HAZARD INFORMATION

FLAMMABILITY DATA:

EXPLOSIVE: No FLAMMABLE: No COMBUSTIBLE: No PYROPHORIC: No

FLASH POINT: None

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS AT NORMAL ATMOSPHERIC TEMPERATURE AND PRESSURE (PERCENT VOLUME IN AIR): LEL - Not Applicable UEL - Not Applicable

NFPA RATINGS:

Not Established

HMIS RATINGS:

Health: 2 Flammability: 0 Reactivity: 0

EXTINGUISHING MEDIA:

Not Applicable-Choose extinguishing media suitable for surrounding materials.

FIRE FIGHTING TECHNIQUES AND COMMENTS:

This product would not be expected to burn unless all the water is boiled away. The remaining organic compounds may be ignitable. Use water to cool containers exposed to fire.

See Section 11 for protective equipment for fire fighting.

SECTION 7 REACTIVITY INFORMATION

CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE:

TEMPERATURES ABOVE: Stable at normal temperatures

MECHANICAL SHOCK OR IMPACT: No

ELECTRICAL (STATIC) DISCHARGE: No

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen and hydrogen chloride on thermal decomposition

SUMMARY OF REACTIVITY:

EXPLOSIVE: No
OXIDIZER: No
PYROPHORIC: No
ORGANIC PEROXIDE: No
WATER REACTIVE: No

SECTION 8 FIRST AID

EYES:

Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician.

SKIN:

Immediately flush with water for 15 minutes. Wash the contaminated skin with soap and water. If irritation develops, call a physician. If clothing comes in contact with the product, the clothing should be laundered before re-use.

INGESTION:

Immediately drink water to dilute. Consult a physician if symptoms develop.

INHALATION:

Remove person to fresh air. If respiratory irritation develops, call a physician.

SECTION 9 TOXICOLOGY AND HEALTH INFORMATION

ROUTES OF ABSORPTION

Ingestion, skin and eye contact

WARNING STATEMENTS AND WARNING PROPERTIES

DO NOT TAKE INTERNALLY. MAY CAUSE EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION.

HUMAN THRESHOLD RESPONSE DATA

ODOR THRESHOLD: No Data

IRRITATION THRESHOLD: No Data

IMMEDIATELY DANGEROUS TO LIFE OR HEALTH: The IDLH concentration has not been established for this product.

SIGNS, SYMPTOMS, AND EFFECTS OF EXPOSURE

INHALATION

ACUTE:

Inhalation of the concentrated material may cause irritation to the eyes, throat, mucous membranes, and upper respiratory tract. Any irritation would be expected to be transient with no permanent damage expected.

CHRONIC:

There are no known or reported effects from chronic exposure.

SKIN

ACUTE:

There is no data available on the effects of acute dermal exposure to this product.

However, repeated or prolonged skin contact with concentrated material may cause some individuals to develop a skin rash (redness) or other skin complications due to allergic skin sensitization.

CHRONIC:

There are no known or reported effects from chronic exposure.

EYE

Contact with the eyes may cause a moderate to severe irritation consisting of reversible redness, swelling and mucous membrane discharge to the conjunctiva. No corneal involvement or visual impairment would be expected.

INGESTION

ACUTE:

Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy or diarrhea.

There are no known or reported effects from chronic exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None known or reported.

INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY None known or reported

ANIMAL TOXICOLOGY

ACUTE TOXICITY:

Inhalation LC 50: No Data Dermal LD 50: No Data Oral LD 50: No Data

Irritation: May cause moderate to severe eye irritation. May cause allergic skin sensitization.

ACUTE TARGET ORGAN TOXICITY:

No organs known to be damaged from exposure to this product. Contact with the eyes may cause moderate to severe irritation. Prolonged or repeated skin contact with the concentrated material may cause allergic skin sensitization.

CHRONIC TARGET ORGAN TOXICITY:

There are no known or reported effects from repeated exposure to this product.

REPRODUCTIVE AND DEVELOPMENTAL TOXICITY:

There are no known or reported effects on reproductive function or fetal development.

CARCINOGENICITY:

This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

MUTAGENICITY:

This product is not known or reported to be mutagenic. 1-Hexadecanammonium, N,N,N-trimethyl chloride, the active ingredient in this product, has been tested and was found to be non-mutagenic in the Ames assay and did not induce in vitro transformation of hamster embryo cells.

AQUATIC TOXICITY:

No Data

SECTION 10 TRANSPORTATION INFORMATION

THIS MATERIAL IS NOT REGULATED AS A DOT HAZARDOUS MATERIAL.

SECTION 11 SPILL AND LEAKAGE PROCEDURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300. REPORTABLE QUANTITY: Not Applicable (Per 40 CFR 302.4)

SPILL MITIGATION PROCEDURES:

Evacuate all non-essential personnel. Hazardous concentrations in air may be found in local spill area. Stop source of spill as soon as possible and notify appropriate personnel.

AIR RELEASE: Vapors may be suppressed by the use of water fog.

WATER RELEASE: This material is completely miscible with water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.

LAND SPILL: Create a dike or trench to contain materials. Spill materials may be absorbed using any absorbant material. Do not place spill materials back in their original containers.

Containerize and label all spill materials properly.

Decontaminate all clothing and the spill area using detergent and flush with large amounts of water.

SPILL RESIDUES:

Dispose of per guidelines under Section 12, WASTE DISPOSAL.

PERSONAL PROTECTION FOR EMERGENCY SPILL AND FIRE-FIGHTING SITUATIONS: In case of fire, use normal fire fighting equipment (including a self-contained breathing apparatus: SCBA)

For large spills, additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to: boots, gloves, splash-proof goggles and impervious clothing, i.e., chemically impermeable suit.

SECTION 12 WASTE DISPOSAL

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.

As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by treatment in a wastewater treatment system.

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

SECTION 13 ADDITIONAL REGULATORY STATUS INFORMATION

TOXIC SUBSTANCES CONTROL ACT:

Control Act inventory.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 - PROPOSITION 65:

"WARNING: This product contains detectable amounts of a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm."

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III: HAZARD CATEGORIES, PER 40 CFR 370.2:

HEALTH:

Immediate (Acute)

PHYSICAL:

None

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR 355, APP.A:
EXTREMELY HAZARDOUS SUBSTANCE - THRESHOLD PLANNING QUANTITY:
None Established

SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45: None Established

SECTION 14 ADDITIONAL INFORMATION

No Additional Information

SECTION 15 MAJOR REFERENCES

1. Inoue, K., et al., Studies of In Vitro Cell Transformation and Mutagenicity by Surfactants and Other Compounds. Food and Cosmetics Toxicology, Vol. 18, no. 3, pp. 289-296, 1980.

Other References are available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION INTHIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

Arch Chemicals, Inc.
MSDS Control
501 Merritt 7
PO Box 5204
Norwalk, CT 06856-5204